

# **Automatic Gear Transmission Apparatus**

## **Abstract**

5        An automatic gear transmission apparatus, capable of cooperating with  
a conventional manual transmission gearbox to provide an automatic gear  
transmission function. The automatic gear transmission apparatus  
comprises: a motor, a clutch mechanism, a gear selection mechanism, a gear  
transmission mechanism, and a sleeve rod. By means of the clutch  
10 mechanism, output power from a single motor can be optionally transmitted  
out through the gear selection mechanism or the gear transmission  
mechanism. The power output by the gear selection mechanism can  
linearly activate the sleeve rod to proceed a gear selection action, while the  
power output by the gear transmission mechanism can rotationally activate  
15 the sleeve rod to proceed a gear transmission action. Therefore, using only  
a single motor can drive the sleeve rod linearly or rotationally to proceed  
two actions of gear selection and gear transmission, respectively.